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ABSTRACT

Intended for students considering academic careers, beginning faculty, and professionals considering a return to academia as professors, this book provides a comprehensive guide to teaching at schools of science and engineering. The three chapters of Part 1 examine the unique characteristics of higher education, the place of science and engineering in academia, and challenges for the professoriate. Part 2 focuses on preparing for an academic career. The three chapters cover the professional preparation strategy, research at the graduate and postdoctoral levels, and teaching experiences prior to becoming a professor. Part 3 focuses on the job search in chapters on identifying the possibilities, applying for positions, and getting the desired results through negotiation. Part 4 offers guidance for the first years on the job, with chapters on time management, teaching and learning, research, professional responsibility, and tenure. Each chapter begins with an introduction, which is followed by several vignettes, the main body of the chapter, suggested additional resources, and a summary. Among seven appendices are a list of items for inclusion in a teaching portfolio, a statement of the author's personal philosophy of teaching and learning, a list of professional associations in science and engineering, and a list of common shortcomings of grant proposals. (DB)

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